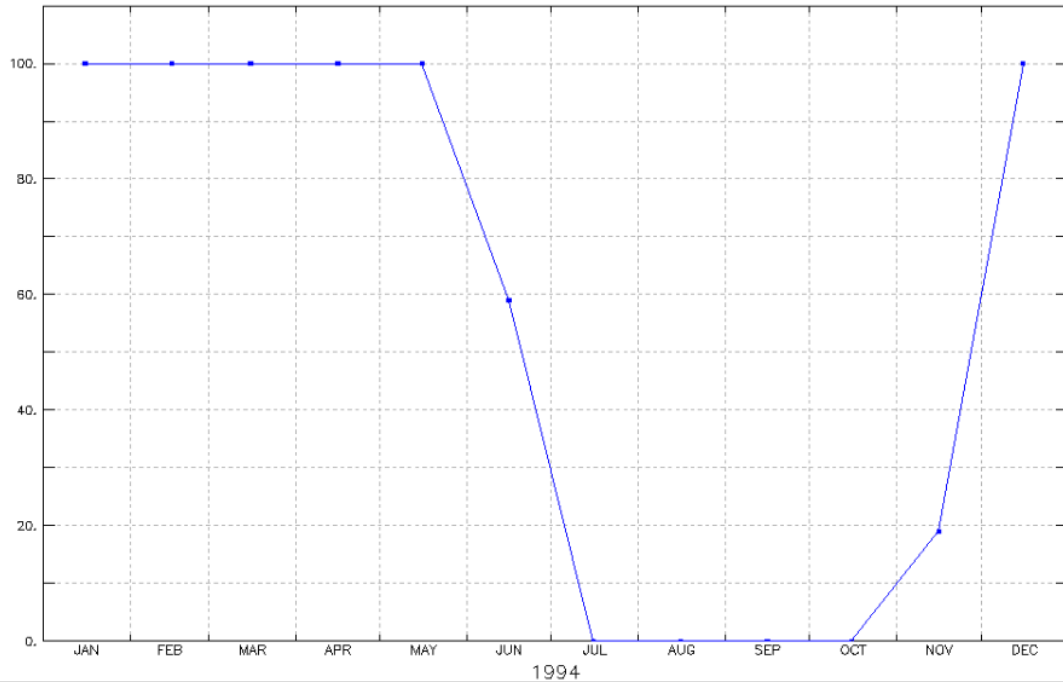


NAME: _____ DATE: _____ CLASS: _____

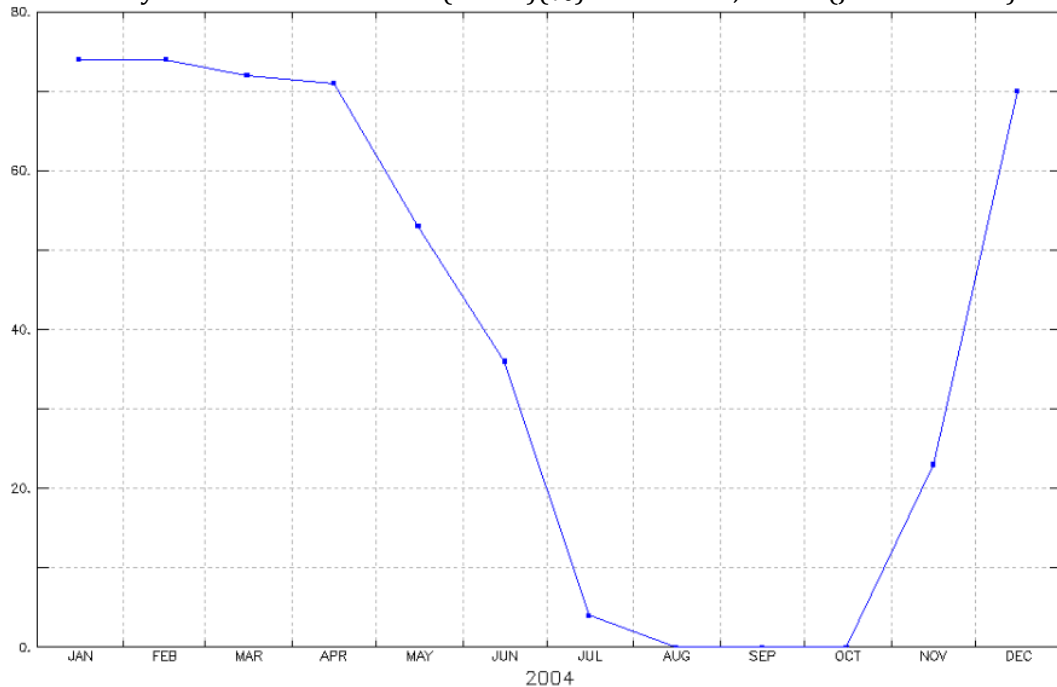
MY NASA DATA: Studying Snow and Ice Changes
http://mynasadata.larc.nasa.gov/?page_id=474?&passid=69

Use the first 2 plots to answer the first two questions at the end of this packet.

Plot 1 – Monthly Snow and Ice Amount (ISCCP)(%) for 89.14W, 61.3N (Jan-Dec 1994)



Plot 2 - Monthly Snow and Ice Amount (ISCCP)(%) for 89.14W, 61.3N (Jan-Dec 2004)



NAME: _____ DATE: _____ CLASS: _____

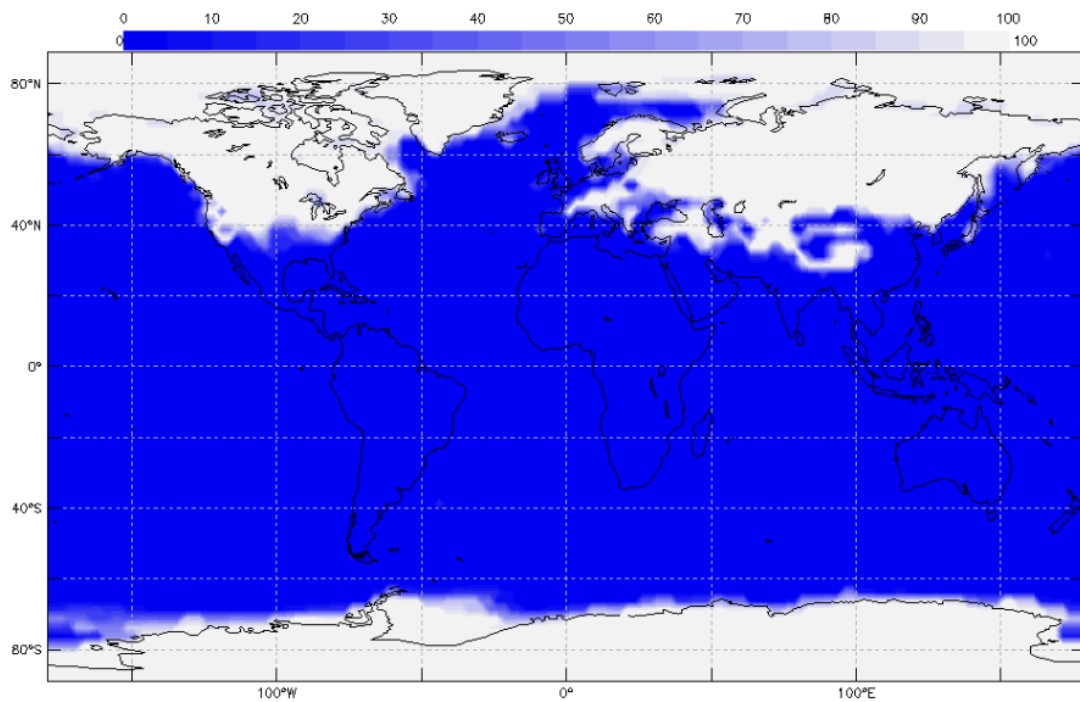
MY NASA DATA: Studying Snow and Ice Changes

http://mynasadata.larc.nasa.gov/?page_id=474?&passid=69

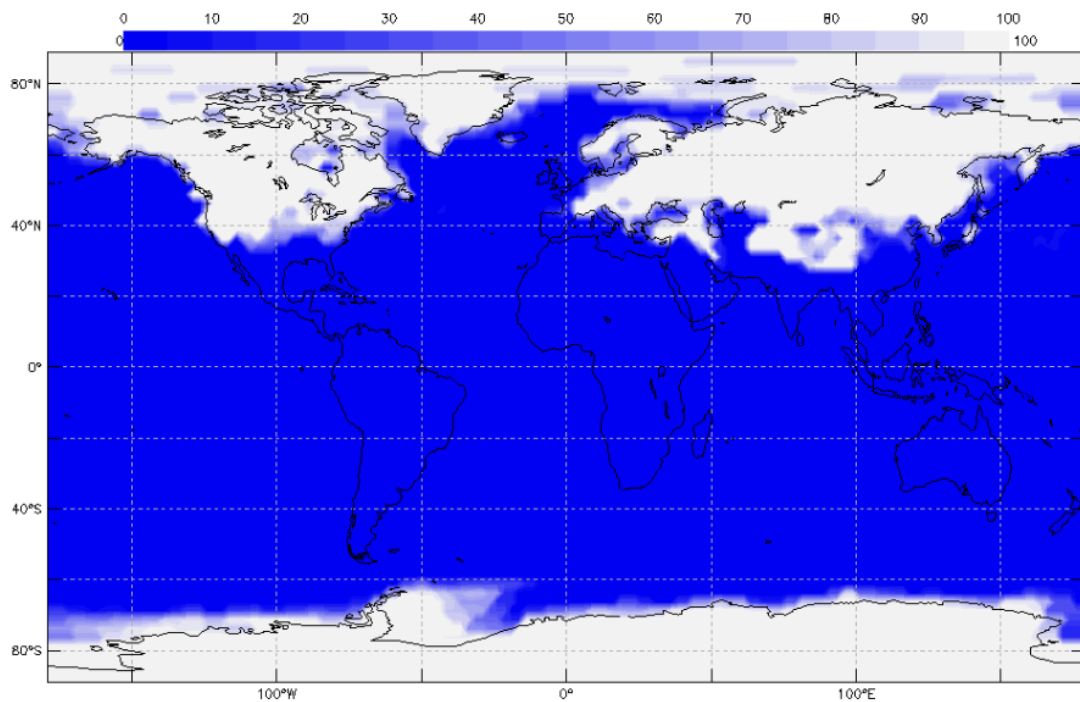
Color Plot Analysis:

Use the next three color plots to answer questions 3-8 below

Color plot 1: Snow and Ice Coverage Jan 1994



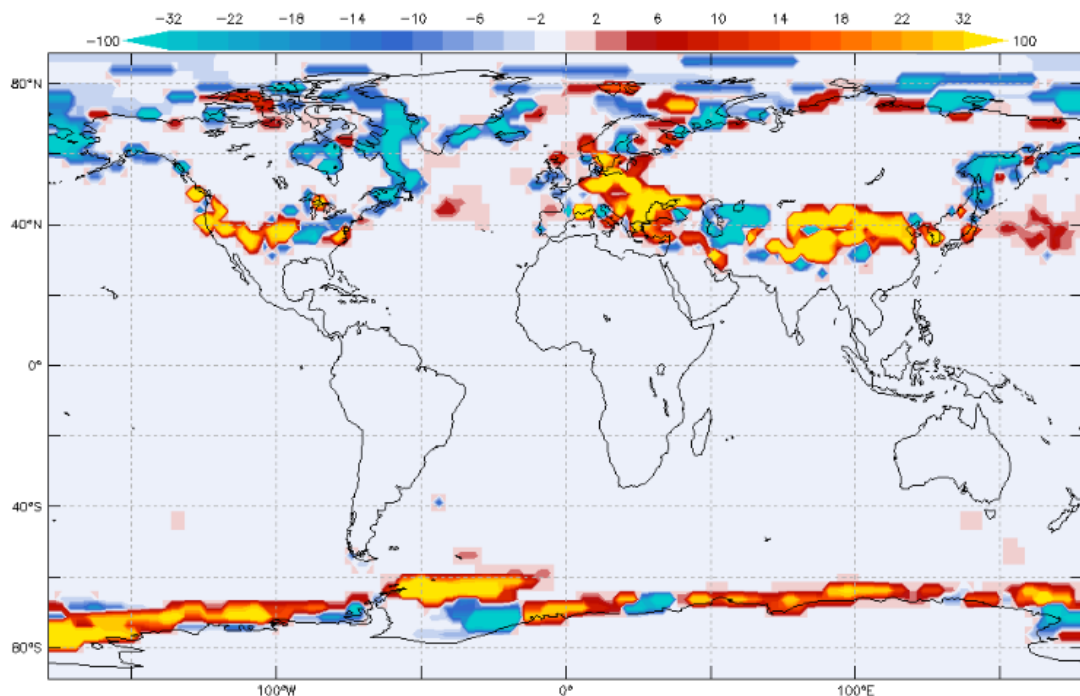
Color Plot 2: Snow and Ice Coverage Jan 2004



NAME: _____ DATE: _____ CLASS: _____

MY NASA DATA: Studying Snow and Ice Changes
http://mynasadata.larc.nasa.gov/?page_id=474?&passid=69

Color Plot 3: Difference plot Snow and ice coverage between Jan 94 and Jan 04 in %



Questions:

1. How has the seasonal trend changed from 1994 to 2004 as seen in these two plots?
2. What implications can be made from the analysis of these two plots? By looking at these two plots, is it possible to make a claim as to how the climate in that region has changed?
3. What are some of the advantages of using the three plots next to each other?
4. What is the advantage of using the difference plot? Is it easy to interpret why or who not?
5. Suggest other ways to analyze the data to bring out other inferences.

NAME: _____ DATE: _____ CLASS: _____

MY NASA DATA: Studying Snow and Ice Changes
http://mynasadata.larc.nasa.gov/?page_id=474?&passid=69

6. Now that we think the data seems OK, what does it show?

a. In what areas has the snow and ice cover increased and where has it decreased?

b. Does this pattern agree with what you have read regarding climate change?

c. Try to explain the causes for areas of significant gain or loss in snow and ice cover, especially anomalous ones that you haven't read about.

d. Ten years of snow and ice data is about all that is available from this source. What level of confidence would you have in conclusions resulting from this dataset?

7. How do the changes in the latitude longitude study compare to the changes seen in the color plot study?

8. What circumstances should each type of plot be used in a study?